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	Application No.	Applicant(s)	
Notice of Allowability	10/684,108	CHEN, FENG-YI	
	Examiner	Art Unit	
	Asok K. Sarkar	2891	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendment filed 7/7/2</u>	<u>2005</u> .		
2. ⊠ The allowed claim(s) is/are <u>1-4</u> .			•
3. 🔀 The drawings filed on 10 October 2003 are accepted by the Examiner.			
Acknowledgment is made of a claim for foreign priority un a) ⊠ All b) □ Some* c) □ None of the:			
 Certified copies of the priority documents have been received. □ Certified copies of the priority documents have been received in Application No 			
 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the 			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the re	quirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or Nation is deficient.	NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review(PTO		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi he header according to 37 CFR 1.121(ngs in the front (not the	e back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. AL MATERIAL.	Note the
Attachment(s)	•		
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	• •	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Alle	owance
of Biological Material	9.		

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment of claims 1 and 3 corrects the problems noted in Paper mailed April 7, 2005.

Allowable Subject Matter

- 2. Claims 1 4 are now allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1 – 4 recite, inter alia, a method for multi-layer alignment of a semiconductor substrate with alignment marks, comprising the steps of forming a first layer with first alignment marks on the substrate, wherein the first alignment marks are separated parallelly by a predetermined distance, forming a second layer with second alignment marks on the first layer, wherein the second alignment marks are separated parallelly by a predetermined distance, measuring the shift distances of each first alignment mark and the second alignment mark caused by substrate deformation to calculate a first midpoint between the first alignments and a second midpoint between the second alignments and calculating a third midpoint acting as a datum point between the fist midpoint and the second midpoint. The art of record does not disclose or anticipate the above limitation in combination with other claim elements nor would it be obvious to modify the art of record so as to form a device including the above limitation.

Conclusion

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tisher, US 4,238,685; Fujimura, US 4,423,127; Fulford, US 6,072,192; Fulford, US 6,118,137; Chen, US 6,228,743; Ziger, US 6,465,322; Nakagawa, US 6,562,710; Mos, US 6,732,004; Garza, US 6,782,525; Farrow, US 2002/0102811 and Chen, US 2003/0174879 teach methods for aligning semiconductor substrates.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 571 272 1970. The examiner can normally be reached on Monday Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on 571 272 1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Asok K. Sarkar

July 18, 2005

Primary Examiner